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## REPORT

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- Approved For Release 2009/02/18 : CIA-RDP82-00457R012500310010-2

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4. Iron powder

A good substitute for carbonyl iron powder is at present being produced from ferrous oxalate. The production at the moment is running on a pilot plant scale. A large plant is at present under construction.

5. New Igitrit

A new Igitrit has been developed which has a very high heat tolerance and chemical resistance. It is alleged to withstand temperatures as high as 600° and may withstand 800° for a short time. It is also a very good insulator (which the old Igitrit was not) and very much more resistant to chemical attack.<sup>4</sup>

6. Boron carbide

The works is to undertake the production of the abrasive in large quantities.

7. Methylene chloride

CH<sub>2</sub>Cl<sub>2</sub> will be produced at the rate of 100 tons/month.

8. Aluminum production

Ahrwerk I<sup>5</sup> went into half scale production on 22 February owing to failure of bauxite supplies and was just about to close down altogether when fresh supplies arrived on 3 March. Since then production has been at full scale. As a result of the semi-shutdown many man-hours were lost because the electrolysis baths had cooled and had to be started again.

9. Rebuilding of Werk Nord

A new iron foundry is to be built at Werk Nord at a cost of 2,000,000 DM. Production will commence at the end of the year. The manager will be Dombois, former manager of the sodium electrolysis plant. The foundry is to produce high grade special alloys including ferrotitanium, ferrotungsten, ferrochrome, ferromolybdenum and ferroniobium.

1. [redacted] Comment: [redacted] Igitrit fulfills most of these requirements, 25X1  
but is not sufficiently resistant to chemicals and solvents. [redacted] 25X1  
[redacted] the spark-proofing requirement might indicate that the floor covering  
is for use in the presence of inflammable solvents or similar material.

2. [redacted] 25X1

3. [redacted]  
[redacted] Comment: The method used for testing in the development of this material  
is as follows: The material is dissolved in the desired solvent, then beaten  
with a perforated plunger in a graduated cylinder at the rate of 60 strokes  
per minute for 2 minutes. It then stands for 2 hours. To pass the test the  
head of foam must not have diminished by more than 50 per cent during the  
2-hour period.

4. [redacted] Comment: [redacted] this material can be heated red hot 25X1  
in a welding torch for a few moments and then put in cold water without  
suffering any ill effects. The development work was carried out by one  
Scheibe, who was promoted to the rank of works manager on the strength of it.

[redacted] Comment: [redacted] as of mid-January 25X1  
1952 the Igitrit works had been made an independent "Betrieb", with Otto  
Scheibe, the former foreman, as Betriebsleiter.

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5.

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Comment: [redacted] the information that the works received a letter from Professor Faltin, of Technische Hochschule, Dresden, asking for information regarding the stability of Freon 12 to iron and steel at high temperatures and pressures. He claimed he was developing a turbine which would operate with Freon 12 in lieu of steam and which would run at temperatures up to 500° C. and pressures of 60 to 120 atmospheres. 25X1

Comment: The 1950 Dresden telephone directory lists Prof. Hans Faltin Dr.-Ing. at A24 Schnorrstr. 76. 25X1

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25 YEAR RE-REVIEW